

SONAT EXPLORATION COMPANY  
SOUTHERN NATURAL RESOURCES TOWER  
5599 SAN FELIPE ROAD  
P. O. BOX 1513  
HOUSTON, TEXAS 77001

November 10, 1981

Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

RE: Application for Permit to Drill  
SONAT Baranger #1-23 B2  
Sec. 23, T2S, R2W  
Duchesne County

Gentlemen:

Enclosed, in triplicate, is Form OGC-1a, "Application for Permit to Drill" concerning the subject well. Also, included are the location plats and BOP schematic.

SONAT Exploration Company requests an exemption to the subject well's spacing requirements as stated in Statewide Order 131-14.

The original location, 1320'FNL and 1520'FEL of Sec. 23, was found to be situated in a creek bed, as shown in the enclosed topographical map. Due to this hazard, we wish to move the location. The new proposed location, 1123'FNL and 1557'FEL of Sec. 23, T2S, R2W, is also shown on the enclosed map.

With this in mind, we respectfully request a variance to Order 131-14 and approval of our proposed location as shown on the certified plat.

Very truly yours,

SONAT EXPLORATION COMPANY



D. E. Richards  
Senior Drilling Engineer

DER/BTS/jlp  
Enclosures

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

**SUBMIT IN DUPLICATE\***  
 (Other instructions on  
 reverse side)

5. Lease Designation and Serial No.

FEE

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Baranger

9. Well No.

1-23 B2

10. Field and Pool, or Wildcat

Unknown Wildcat

11. Sec., T., R., M., or Blk.  
and Survey or Area

Sec. 23, T2S, R2W

12. County or Parrish 13. State

Duchesne Utah

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil  
Well ☒Gas  
Well ☐

Other

Single  
Zone ☐Multiple  
Zone ☐

2. Name of Operator

SONAT Exploration Company

3. Address of Operator

P.O. Box 1513; Houston, TX 77001

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

1123' FNL &amp; 1557' FEL of Section 23, T2S, R2W

At proposed prod. zone

Same as above

14. Distance in miles and direction from nearest town or post office\*

4.3 miles west of Roosevelt

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drlg. line, if any)

230'

16. No. of acres in lease

50

17. No. of acres assigned

to this well  
64018. Distance from proposed location\*  
to nearest well, drilling, completed,  
or applied for, on this lease, ft.

N/A

19. Proposed depth

12,500'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5268' (Ungraded ground level)

22. Approx. date work will start\*

December, 1981

23.

## PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
24"	16"	65#	300	500 sx
12-1/4"	10-3/4"	51#	5500	460 sx
9-5/8"	7-5/8"	33.7#	8500	---
9-5/8"	7-5/8"	39#	(8500-10,000')	475 sx
6-1/2"	5"	18#	(9700-12,500') LINER	310 sx

**APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING**

**DATE:** 11/13/81  
**BY:** DR. Taylor

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

DE RichardsTitle Sr. Drilling EngineerDate 11-10-81

(This space for Federal or State office use)

Permit No. ....

Approval Date .....

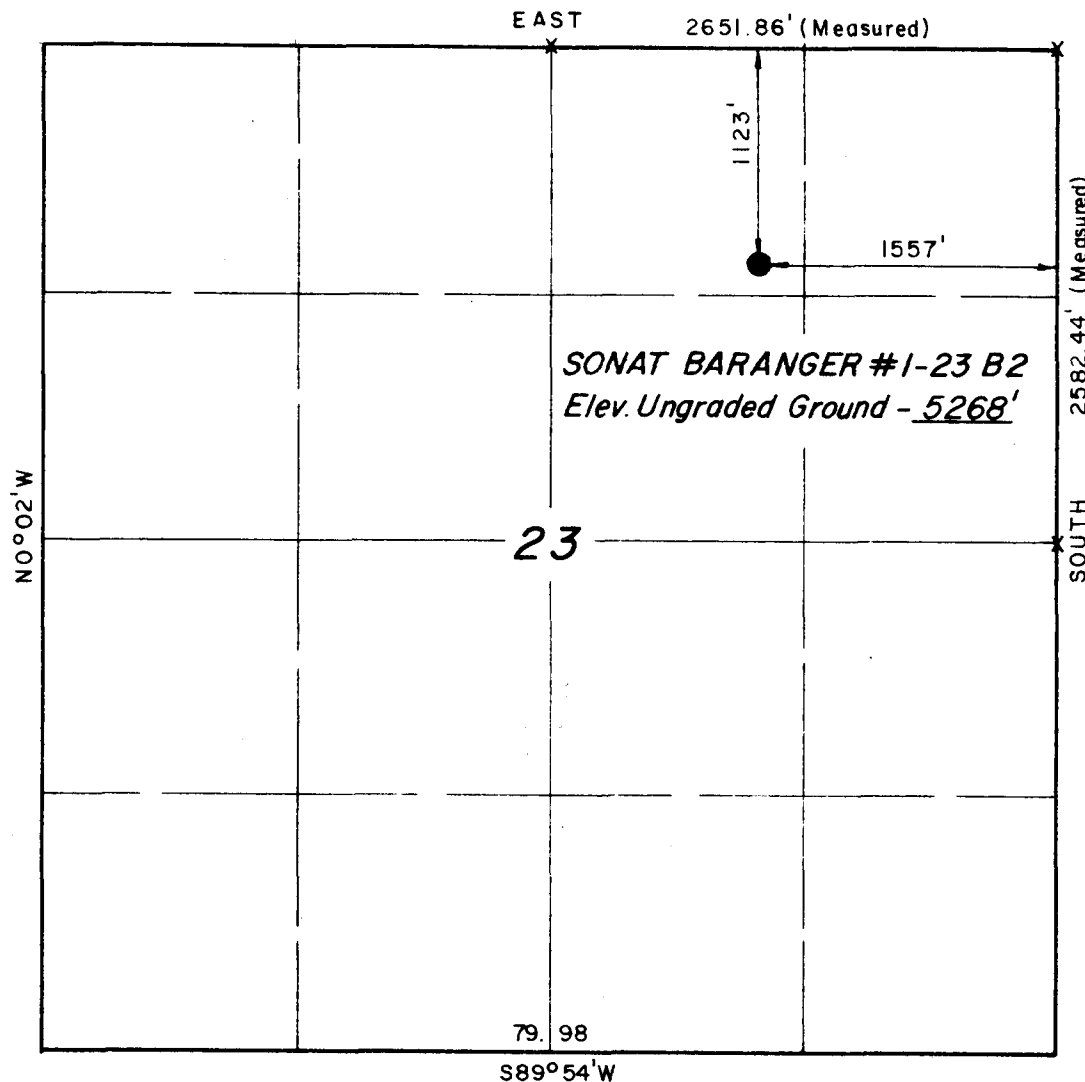
Approved by.....  
Conditions of approval, if any:

Title..... Date.....

T 2 S , R 2 W , U.S.B. & M.

PROJECT  
**SONAT EXPLORATION COMP.**

Well location, *SONAT BARANGER #1-23 B2*, located as shown in the NW 1/4 NE 1/4 Section 23, T2S, R2W, U.S.B. & M. Duchesne County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

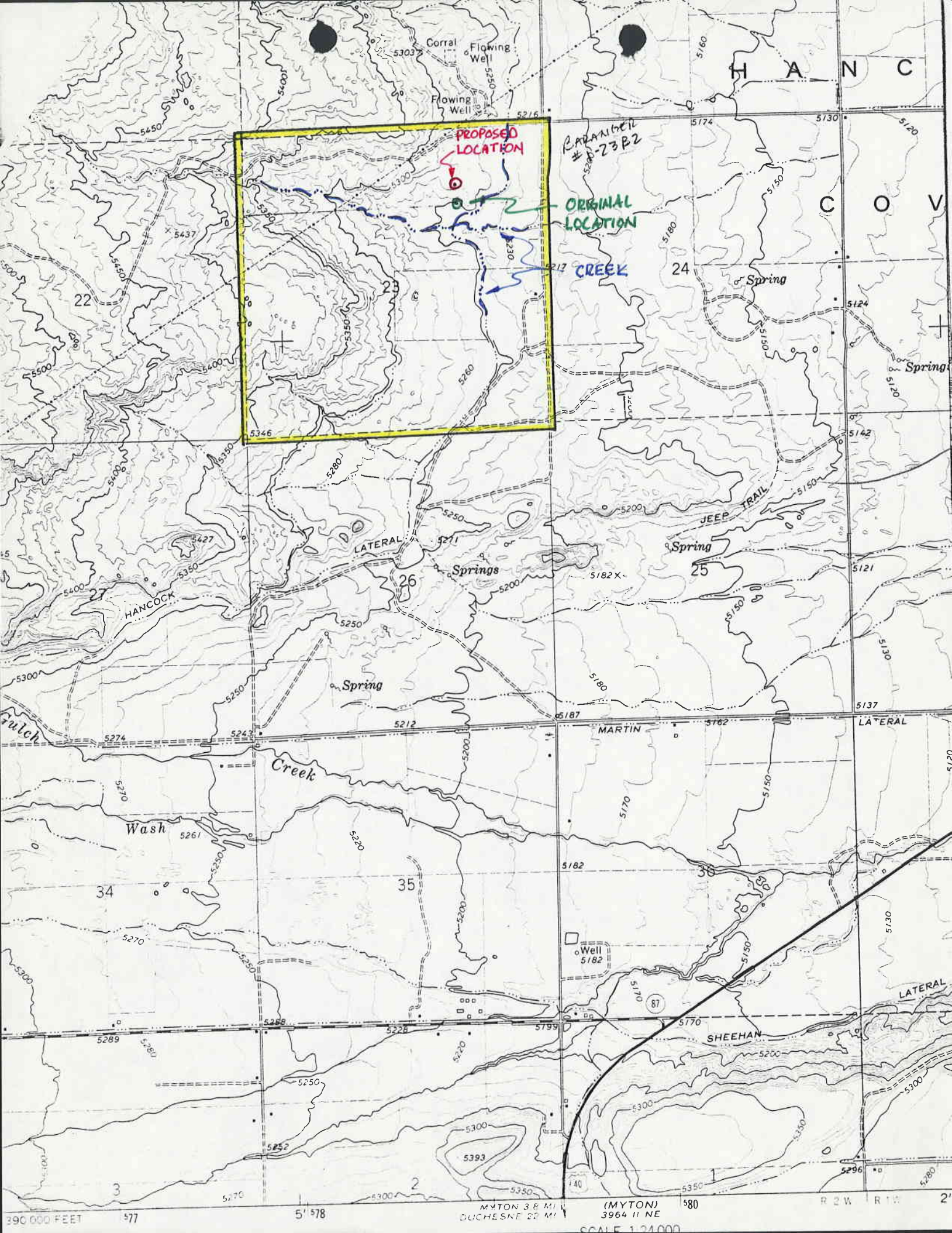
*Dave Stewart*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

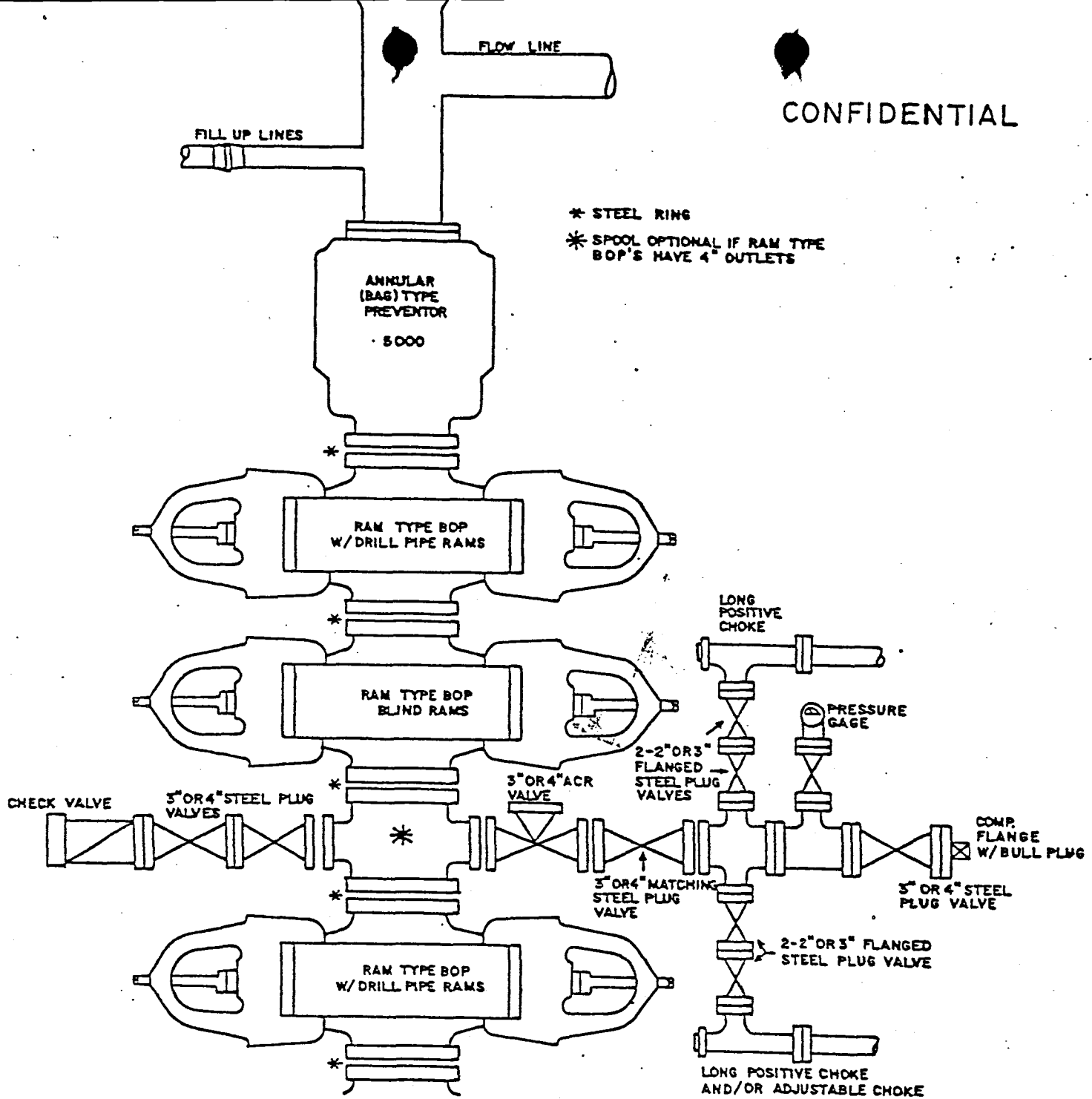
SCALE	1" = 1000'	DATE	10/15/81
PARTY	RT MM GS RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	SONAT

X = Section Corners Located





CONFIDENTIAL



SURFACE Csg BOP PROGRAM = 5000 WP psi  
 PROTECTIVE Csg BOP PROGRAM = 5000 WP psi

SONAT EXPLORATION COMPANY  
 HOUSTON, TEXAS

STANDARD BOP HOOKUP  
 FOR SURFACE  
 AND PROTECTION CASING

DATA: WJS	REFERENCE	FILE
DATE: 1-4-81	80316-2	MISC.
DRAWN: SALVADOR		LEGAL

# JONES, WALDO, HOLBROOK & McDONOUGH

A PROFESSIONAL CORPORATION

## ATTORNEYS AND COUNSELORS

DONALD B. HOLBROOK  
CALVIN L. RAMPTON  
ROGER J. McDONOUGH  
W. ROBERT WRIGHT  
RANDON W. WILSON  
RONALD J. OCKEY  
ROBERT M. McDONALD  
JACK LUNT  
EDWARD J. McDONOUGH  
JAMES S. LOWRIE  
RONNY L. CUTSHALL  
MICHAEL R. MURPHY  
CHRISTOPHER L. BURTON  
LARRY C. HOLMAN  
WILLIAM B. BOHLING  
D. MILES HOLMAN  
ROBERT S. McCONNELL  
GLEN D. WATKINS  
ANDREW W. BUFFMIRE  
RUSSELL H. LOWE  
ROBYN O. HEILBRUN

SUZANNE M. DALLIMORE  
THOMAS E. K. CERRUTI  
CRAIG R. MARIGER  
LAWRENCE J. JENSEN  
DAVID B. LEE\*  
LEGRAND R. CURTIS, JR.  
GRETTA C. SPENDLOVE  
GREGG I. ALVORD  
KENT T. ANDERSON  
TIMOTHY B. ANDERSON  
SUZANNE WEST  
ELIZABETH M. HASLAM  
MARK N. SCHNEIDER  
WILLIAM G. STEHLIN  
REX P. BURGON  
L. JOHN LEWIS  
G. RAND BEACHAM  
RANDALL N. SKANCHY  
JANET C. GRAHAM  
BRIAN W. STEFFENSEN

OF COUNSEL  
JOSEPH S. JONES

November 13, 1981

\* ADMITTED AND RESIDENT IN WASHINGTON, D.C.

## SALT LAKE CITY OFFICE

800 WALKER BUILDING  
SALT LAKE CITY, UTAH 84111  
TELEPHONE (801) 521-3200  
TELECOPIER 521-3200 EXT 223

## WASHINGTON D.C. OFFICE

SUITE 200  
2000 L STREET, N.W.  
WASHINGTON, D.C. 20036  
TELEPHONE (202) 296-5950  
TELECOPIER 833-3843

## ST. GEORGE OFFICE

ONE SOUTH MAIN STREET  
ST. GEORGE, UTAH 84770  
TELEPHONE (801) 628-1628

SHEEKS & RAWLINS	1875
RAWLINS & CRITCHLOW	1891
RAWLINS, THURMAN, WEDGEWOOD & HURD	1897
RAWLINS, RAY & RAWLINS	1907
INGEBRETSEN, RAY & RAWLINS	1929
INGEBRETSEN, RAY, RAWLINS & CHRISTENSEN	1941
INGEBRETSEN, RAY, RAWLINS & JONES	1948
RAY, RAWLINS, JONES & HENDERSON	1949

IN REPLY REFER TO: SLC Office

NOV 13 1981  
DIVISION OF  
OIL, GAS & MINING

HAND DELIVERED

Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, UT 84116

RE: Application for Permit to Drill, SONAT Baranger No.  
1-23 B2, Section 23, T2S, R2W, Duchesne County, Utah

Gentlemen:

On behalf of SONAT Exploration Company, I submit  
herewith an Application for Permit to Drill, with attachments.

Please note that SONAT requests an exception to  
presently applicable spacing requirements for the proposed  
well. The exception is sought for topographical reasons and  
thus, according to the Order in Cause No. 131-14, may be  
granted administratively without a hearing.

When the drilling permit is issued, please sent it  
to me at this office. In the meantime, please contact me if  
you have any questions or comments.

Thank you very much for your attention to this matter.

Yours very truly,

Gregg I. Alvord

GIA/ljh  
Enclosure

**\*\* FILE NOTATIONS \*\***

DATE: November 13, 1981

OPERATOR: Sonot Exploration Company

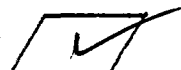
WELL NO: Baranger #1-23B2

Location: Sec. 23 T. 2S R. 2W County: Duchesne

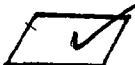
File Prepared:



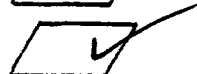
Entered on N.I.D:



Card Indexed:



Completion Sheet:



API Number 43-013-30619

CHECKED BY:

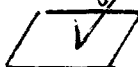
Petroleum Engineer: \_\_\_\_\_

Director: OK as per order record case 131-14

Administrative Aide: OK as per Order Below, topographical exception to the order,

APPROVAL LETTER:

Bond Required:



Survey Plat Required:

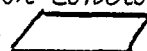


Order No. 131-14, 8-11-71

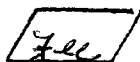
O.K. Rule C-3



Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site



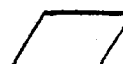
Lease Designation



Plotted on Map



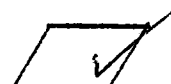
Approval Letter Written



Hot Line



P.I.



November 13, 1981

Sonat Exploration Company  
P. O. Box 1513  
Houston, Texas 77001

RE: Well No. Baranger #1-23B2,  
Sec. 23, T. 2S, R. 2W,  
Duchene County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well at said unorthodox location is hereby granted in accordance with the Order issued in Cause No. 131-14, dated August 11, 1971.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-013-30619.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight  
Director

CBF/db  
CC: OGM



Sonat Exploration Company  
Post Office Box 151  
Houston TX 77251 1513  
713 940 4000

**SONAT EXPLORATION**

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

February 12, 1982

Subject: Baranger #1-23B2  
Sec. 23, T2S, R2W  
Duchesne County, Utah

**RECEIVED**  
FEB 17 1982  
DIVISION OF  
OIL, GAS & MINING

Gentlemen:

Sonat Exploration Company requests an extension to the drilling permit issued on November 13, 1981 for the Baranger #1-23B2 in Duchesne County, Utah (API No. 43-013-30619). We anticipate drilling to begin in May of this year.

Your assistance in this matter will be greatly appreciated. If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards  
Senior Drilling Engineer

DER/BTS/JAZ

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

## SONAT EXPLORATION

April 6, 1982

Re: Sonat-Strand-Baranger #1-23B2  
Sec. 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, are Forms OGC-1b, "Sundry Notices and Reports on Wells," concerning the subject well. Sonat is requesting approval to change the well name to Sonat-Strand-Baranger #1-23B2 from the Baranger #1-23B2.

If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards  
Senior Drilling Engineer

DER/BTS/jlp  
Enclosures

RECEIVED  
APR 13 1982

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1513; Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 3, T2S, R2W		8. FARM OR LEASE NAME Sonat - Strand - Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. #1-23B2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5268' (Ungraded Ground Level)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

18.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Change well name <input type="checkbox"/>	

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Sonat Exploration Company requests approval to change the well name to Sonat-Strand-Baranger #1-23B2 from the Baranger #1-23B2.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 5/11/82

BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE Senior Drilling Engineer

DATE April 6, 1982

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SONAT EXPLORATION COMPANY

WELL NAME: Sonat Strand-Baranger #1-23B2

SECTION NWNE 23 TOWNSHIP 2 S RANGE 2 W COUNTY Duchesne

DRILLING CONTRACTOR Tanscontinental

RIG # 57

SPUDDED: DATE 5-23-82

TIME 8:00 AM

How Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Bryan Simmons

TELEPHONE # 713-940-4018

DATE May 20, 1982 SIGNED SLC

Sonat Exploration Company  
Post Office Box 15  
Houston TX 77251 1513  
713 940 4000

**SONAT EXPLORATION**

June 3, 1982

Re: Sonat-Strand-Baranger #1-23B2  
Sec. 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," requesting approval to alter the casing design and deepen the well.

If you require additional information, please call me at 713/940-4014.

Sincerely,

*Mike Lammers fl*

D. E. Richards  
Senior Drilling Engineer

DER/BTS/jlp  
Enclosures

**RECEIVED**  
JUN 10 1982

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. FEE	
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 1513; Houston, TX 77251-1513		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger	
14. PERMIT NO. 43-013-30619		9. WELL NO. #1-23B2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5268' (Ungraded Ground Level)		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W	
		12. COUNTY OR PARISH Duchesne	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input checked="" type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Sonat requests approval to change the surface pipe depth to 3000' from 5500'. Also, we would like to deepen the well to 13,000' from 12,500' in the same reservoir.

NOTE: Verbal approval to alter the surface casing depth was obtained from Mr. Ron Firth on June 2, 1982.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 6/14/82  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED Mike Lammner

TITLE Senior Drilling Engineer

DATE June 3, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_



Sonat Exploration Company  
Post Office Box 1  
Houston TX 77251 1513  
713 940 4000

## **SONAT EXPLORATION**

June 23, 1982

RE: Sonat-Strand-Baranger #1-23B2  
Sec. 23, T2S, R2W  
Duchesne County

State of Utah  
Department of Natural Resources  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-8-X, "Report of Water Encountered During Drilling," along with a Water Analysis Report concerning the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards  
Senior Drilling Engineer

DER/BTS/jlp  
Enclosures



BAR Angel #1 382  
Hinta Research and Analytical Services

P.O. BOX 1488 ROOSEVELT, UTAH 84066

James F. Smith

# WATER ANALYSIS REPORT

(801) 722-2532

COMPANY \_\_\_\_\_ ADDRESS Roosevelt, Utah DATE: 5-29-82

SOURCE Water Pumped from 500/700 ft in DATE SAMPLED 5-29-82 ANALYSIS NO. 11-229  
well in Hancock Cove, Roosevelt Utah

Analysis

Mg/L

\*Meq/L

1. PH 6.45

2. H<sub>2</sub>S (Qualitative) \_\_\_\_\_

3. Specific Gravity 1.005

4. Dissolved Solids 3111.81

5. Suspended Solids \_\_\_\_\_

6. Phenolphthalein Alkalinity (CaCO<sub>3</sub>) 0

7. Methyl Orange Alkalinity (CaCO<sub>3</sub>) 200

8. Bicarbonate (HCO<sub>3</sub>) 244

9. Chlorides (Cl) 800

10. Sulfates (SO<sub>4</sub>) 1200

11. Calcium (Ca) 65

12. Magnesium (Mg) 9

13. Total Hardness (CaCO<sub>3</sub>) 200

14. Total Iron (Fe) .5

15. Barium (Qualitative) \_\_\_\_\_

16. Conductivity \_\_\_\_\_

\*Milli equivalents per liter

HCO<sub>3</sub> 244 ÷ 61 4.00 HCO<sub>3</sub>  
Cl 800 ÷ 35.5 22.54 Cl  
SO<sub>4</sub> 1200 ÷ 48 25.00 SO<sub>4</sub>  
Ca 65 ÷ 20 3.25 Ca  
Mg 9 ÷ 12.2 .74 Mg

mmHos 5400 ppm 43038  
RWC \_\_\_\_\_ C

## PROBABLE MINERAL COMPOSITION

Ca	←	HCO <sub>3</sub>	3.25
Mg	→	SO <sub>4</sub>	4.00
Na	→	Cl	25.00
			22.54

Saturation Values Distilled Water 20°C  
Ca CO<sub>3</sub> 13 Mg/L  
Ca SO<sub>4</sub> · 2H<sub>2</sub>O 2,090 Mg/L  
Mg CO<sub>3</sub> 103 Mg/L

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Compound	Equiv. Wt. X	Meq/L	= Mg/L
Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04	3.25	263.38
Ca SO <sub>4</sub>	68.07	0	0
Ca Cl <sub>2</sub>	55.50	0	0
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17	.74	54.15
Mg SO <sub>4</sub>	60.19	0	0
Mg Cl <sub>2</sub>	47.62	0	0
Na HCO <sub>3</sub>	84.00	.01	.81
Na <sub>2</sub> SO <sub>4</sub>	71.03	25.00	1775.75
Na Cl	58.46	22.54	1317.69

Thank you for the business:

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

## SONAT EXPLORATION

June 30, 1982

Re: Well Status Report  
Sonat-Strand-Baranger #1-23B2  
Sec. 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

5/22/82 thru 6/25/82  
TD @ 9300'  
MW @ 10.7 ppg

Cemented 13-3/8" @ 250' with 385 sx C1 "H." Cut off 13-3/8"  
csg. Spud well at 0800 hr. 5/23/82. Ran 10-3/4" csg to  
2970'. Cemented with 645 sx + additives, cement water cut  
at surface. RU Halliburton and squeezed 10-3/4" annulus.  
WOC. ND BOPs and cut off 10-3/4". NU wellhead and tested  
same. NU & tested BOPs. Tested csg to 1000 psi. Drilling.



D. E. Richards  
Senior Drilling Engineer  
713/940-4014

RECEIVED  
JUL 07 1982

DIVISION OF  
OIL, GAS & MINING

Sonat Exploration Company  
Post Office Box 15  
Houston TX 77251 1513  
713 940 4000

## SONAT EXPLORATION

July 9, 1982

RE: Well Status Report  
Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

6/26/82 thru 7/9/82  
TD @ 10,831'  
MW @ 14.5 ppg

Drilling. RU Schl. and ran DIL/Sonic/GR. Ran 7-5/8" csg. and set at 9746'. RU Hal. Cemented with 250 sx. CL "H" light + additives followed with 200 sx CL "H" + additives. RD Hal. ND and tested BOP's. WIH with 3 1/2" DP. Tested csg. to 1000 psi. Drilling.



D. E. Richards  
Senior Drilling Engineer  
713/940-4014

RECEIVED  
JUL 16 1982

DIVISION OF  
OIL, GAS & MINING

Sonat Exploration Company  
Post Office Box 151  
Houston TX 77251 1513  
713 940 4000

## SONAT EXPLORATION

August 23, 1982

Re: Well Status Report  
Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

RECEIVED  
AUG 30 1982

Gentlemen:

7/10/82 thru 8/16/82

DIVISION OF  
OIL, GAS & MINING

Drilling. POH. Left 355.59' of fish in hole. Fish: bit, ST, DC, ST, 11 DCs. TOF = 11,758'. Circ. BU. Pumped slug & POH. Jarred fish loose. Recovered all fish. Drilling. Lost 5000# wt. on indicator, twisted off. POH. TOF @ 12,232'. Latched fish. POH with full recovery. Drilling. Pipe stuck at 12,995'. Jarred free. CCM to log. Ran Density & Sonic logs from TD to csg. shoe. CCM to run liner. POH. RU and ran 5" liner to 12,993'. Hung TOL at 9422'. Released liner and set liner packoff. POH. Top of CTC pkrs. at 12,156' & 10,915'. WIH with BP, RTTS and 2-3/8" stinger on DP to 12,650'. Set BP at 12,650'. Tested to 2000 psi - ok. Spotted 6 bbl of C1 "H" + 0.5% HR4. PU and set RTTS at 11,760'. Pressured up to 3700 psi. Pumped in only 1/4 bbl max into CTC pkr. at 12,156'. Cir. out cmt. to BP. PU and reset BP at 11,500'. OK. Displaced 6 bbl C1 "H" + 0.5% HR5. PU & set RTTS at 10,554'. Pressured up to inflate upper ext. pkr. Pumped in small amt. of cmt. Washout down to BP. Released BP and POH. WIH with 7-5/8" RTTS to 9250' to test TOL. Set RTTS. Displaced DP with water to 5500'. Opened well. No flow. Rev. out. POH. RU GO WL. Ran temp. survey 9200-12,994' - verified ext. csg. pkrs are set. Reran GR-CCL. Perf with 3-1/8" Hyperdome gun with 3 JSPF at 12,252-945' (DIL 7/25/82). Set Otis "WD" pkr at 11,982'. LD 2-3/8" stinger. Tested BOPs. WIH with 2-7/8", 6.5 ppf, N80, ABC Mod. tbg. Could not circulate at 11,950'. Washed back into pkr. Land seal assby. Tested annulus to 500 psi. Pulled out of pkr. Displaced mud with 11.1 MgCl<sub>2</sub> water. WIH with 2-3/8" heat string. Land tbg. ND BOPs. NU tree. Tested to 5M psi. RU Hal. on 2-7/8" & shear pump out plug with 3200 psi. Displaced heat string & annulus with FW. RU hot oiler & circ. heat string. Opened well. Swabbed well. WIH with spear on 1/4". Fished for

swab tools. Rec. 2' of WL. Caught fish @ 9843'. POH. Full recovery.  
ND BOP. NU tree. RU to swab. NU X-mas tree. RU swab unit. Swabbed  
well. Released rig @ 2200 hr.



---

D. E. Richards  
Senior Drilling Engineer  
713/940-4014



2

*Man*

Sonat Exploration Company  
Post Office Box 1800  
Houston TX 77251 1513  
713 940 4000

**SONAT EXPLORATION**

September 3, 1982

RE: Well Status Report  
Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

8/17/82 thru 9/3/82

Swabbed the well. SI well. Waiting on orders.

*for Mike Lamm*  
D. E. Richards  
Senior Drilling Engineer  
713/940-4014

**RECEIVED**  
SEP 08 1982

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> FEE	
2. <b>NAME OF OPERATOR</b> Sonat Exploration Company		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b>	
3. <b>ADDRESS OF OPERATOR</b> P. O. Box 1513, Houston, Texas 77251-1513		7. <b>UNIT AGREEMENT NAME</b>	
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1123'FNL & 1557'FEL of Section 23, T2S, R2W		8. <b>FARM OR LEASE NAME</b> Sonat-Strand-Baranger	
14. <b>PERMIT NO.</b> 43-013-30619		9. <b>WELL NO.</b> #1-23B2	
15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 5268' (Ungraded GL)		10. <b>FIELD AND POOL, OR WILDCAT</b> Unknown	
		11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> Sec. 23, T2S, R2W	
		12. <b>COUNTY OR PARISH</b> Duchesne	13. <b>STATE</b> Utah

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Reperforate	

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Sonat requests approval to reperforate the following intervals with 4JSPF at 12,252-254'; 12,401-404'; 12,502-506'; 12,590-596'; 12,768-774'; and 12, 814-824' DIL. Subsequently, an acid job will be performed on the present completion.

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**  
DATE: 9/13/82  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Senior Drilling Engineer DATE September 8, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

*John*

**SONAT EXPLORATION**

September 8, 1982

RE: Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County

State of Utah  
Department of Natural Resources  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells" requesting approval to reperforate and acidize the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,

*D E Richards*

D. E. Richards  
Senior Drilling Engineer

DER/BTS/sa

Enclosures

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

M

**SONAT EXPLORATION**

September 13, 1982

Re: Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County

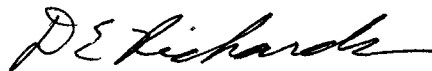
State of Utah  
Department of Natural Resources  
Division of Oil, Gas, & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," concerning the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards  
Senior Drilling Engineer

DER/BTS/jlp  
Enclosures

RECEIVED  
SEP 21 1982

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1513; Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. #1-23B2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5268' (Ungraded GL)		10. FIELD AND POOL, OR WILDCAT Unknown
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

X

PULL OR ALTER CASING


FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF


REPAIRING WELL


FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The subject well was perforated in the Wasatch formation as per attached sheet.

18. I hereby certify that the foregoing is true and correct

SIGNED

*D. E. Richards*

TITLE Senior Drilling Engineer

DATE September 13, 1982

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

**SONAT-STRAND-BARANGER #1-23B2**  
**SECTION 23, T2S, R2W**  
**DUCHESNE COUNTY**

The subject well has been perforated in the Wasatch formation as follows:

Reference: DIL-SFL Dated 7/25/82

3 shots/foot, 120° Phasing, at each depth

<u>Interval</u>	<u>Depth Interval</u>	<u>Ft. of Perfs</u>
1	12,942-945	3
2	929-935	6
3	911-916	5
4	12,893-899	6
5	878-882	4
6	867-870	3
7	849-854	5
8	813-828	15
9	12,794-798	4
10	762-774	12
11	746-752	6
12	722-728	6
13	704-708	4
14	12,691-695	4
15	686-689	3
16	677-684	7
17	666-672	6
18	645-648	3
19	639-642	3
20	624-632	8
21	12,590-596	6
22	570-575	5
23	560-567	7



<u>Interval</u>	<u>Depth Interval</u>	<u>Ft. of Perfs</u>
24	548-558	10
25	528-533	5
26	513-517	4
27	501-507	6
28	12,489-498	9
29	472-479	7
30	456-466	10
31	437-442	5
32	426-430	4
33	416-421	5
34	401-410	9
35	12,385-396	11
36	372-378	6
37	347-351	4
38	330-334	4
39	310-314	4
40	12,294-300	6
41	269-281	12
42	261-265	4
43	252-259	7

## SONAT EXPLORATION

September 17, 1982

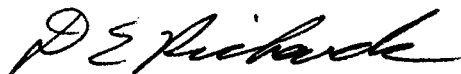
Re: Well Status Report  
Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

9/4/82 thru 9/17/82

RU WL. WIH with bailer to 12,044' but couldn't work deeper. POOH. WIH w/IB to 12,044'. POOH. Imp. of piece of iron wedged in tubing. WIH w/sucker rod. Beat down and broke thru. Continued in hole to 12,851'. POOH. RD WL. RU McCullough. WIH with 1-9/16" Hyperdome gun to 12,900'. Perf at 12,814-824' w/4 JSPF. Perf at 12,095-104' w/4 JSPF. POOH. WIH w/gun #2. Stuck at 12,330'. Worked free. POOH to 12,330'. Couldn't pump the gun free. Fired lower section of gun @ 12,363-65' and gun came free. POOH. RD McCullough. RU Hal. Acidized w/50,000 bbl of 7-1/2% HCl. Initial SI pressure = 5130 psi. RD Hal. RU McCullough. Ran temp log from 9000-12,290'. Ran GR log from 10,700-12,290'. RD McCullough. SITP = 3500 psi. Opened well; bled to 0 psi in 20 min. RU WL. Tbg. cleaned to 12,900'. Swabbed to 5000'. Tbg. plugged at 10,200' and 10,500'. Rec. rubber and TLC (diverter) flakes. Broke thru plugs and WIH to 12,900'. Swabbed 5000' to 9000'. Tagged plug at 9000'. Rec. TLC flakes. Filled tbg. w/52 bbl water. RU WL. Bailed from 9200-15'. Plug moved up hole to 9100'. Bailed to 9110'. Recovered 100% TLC flakes. Tagged plug at 9100'. Bailed to 9184'. Bled pressure to 0 psi. Tagged plug at 8824'. Bailed to 8855'. Bailed 8845-79'. Rec. acid flakes. Plug moved to 8855'. Bailed to 8918'.



D. E. Richards  
Senior Drilling Engineer  
713/940-4014

RECEIVED  
SEP 24 1982

DIVISION OF  
OIL, GAS & MINING

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

M

**SONAT EXPLORATION**

September 23, 1982

Re: Sonat-Strand-Baranger  
#1-23B2  
Section 23, T2S, R2W  
Duchesne County

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

RECEIVED  
SEP 27 1982

DIVISION OF  
OIL, GAS & MINING

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," concerning the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards  
Senior Drilling Engineer

BTS/jlp

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE	
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 1513; Houston, TX 77251-1513		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger	
14. PERMIT NO. 43-013-30619		9. WELL NO. #1-23B2	
15. ELEVATIONS (Show whether DT, RT, GR, etc.) 5268' (Ungraded GL)		10. FIELD AND POOL, OR WILDCAT Unknown	
		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W	
		12. COUNTY OR PARISH Duchesne	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☒

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Sonat requests approval to recomplete in the upper Wasatch.  
Attached are the proposed perforations.

18. I hereby certify that the foregoing is true and correct

SIGNED

*DE Richards*

TITLE Senior Drilling Engineer

DATE Sept. 23, 1982

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

PROPOSED PERFORATIONS  
BARANGER #1-23B2

<u>Depth</u>	<u>Feet</u>
9,795-816	21
9,836-844	8
9,882-887	5
9,890-898	8
9,900-913	13
9,962-974	12
9,978-982	4
9,988-992	4
10,052-060	8
10,064-071	7
10,172-180	8
10,183-187	4
10,200-204	4
10,252-256	4
10,270-274	4
10,358-362	4
10,374-380	6
10,424-432	8
10,434-440	6
10,443-448	5
10,462-470	8
10,472-486	14
10,489-498	9
10,501-505	4
10,513-518	5
10,522-526	4
10,634-646	12
10,686-692	6
10,698-703	5
10,706-713	7
10,739-749	10
10,756-760	4
10,774-783	9

<u>Depth</u>	<u>Feet</u>
10,794-798	4
10,801-810	9
10,824-834	10
11,094-102	8
11,156-163	7
11,188-200	12
11,310-316	6
11,373-382	9
11,428-432	4
11,540-548	8
11,740-744	4
11,918-926	8



21  
Sonat Exploration Company  
Post Office Box 1  
Houston TX 77251 1513  
713 940 4000

SONAT EXPLORATION

October 12, 1982

RE: Sonat-Strand-Baranger 1-23 B2  
Sec. 23, T2S, R2W  
Duchesne Co., Utah

State of Utah  
Dept. of Natural Resources  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attn: Mr. Jack Feight

Sir:

As you suggested in our conversation this date, this is written notice that Sonat has completed the subject well and is now installing production facilities with the intention of beginning production approximately November 25, 1982.

Please send a copy of your form OCG-5 "Monthly Oil & Gas Conservation Levy Report".

If you require any further information, please call me at 713/940-4027.

Very truly yours,

SONAT EXPLORATION COMPANY



M. J. Simon  
Production Superintendent

MJS/smd



DIVISION OF  
OIL, GAS & MINING

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

OCT 10 1982

## SONAT EXPLORATION

DIVISION OF  
OIL, GAS & MINING

October 12, 1982

Re: Well Status Report  
Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

9/18/82 thru 9/21/82

RIH to 12,900'. Swabbed from 0 - 10,500'. Tag fluid at 10,500'.  
SI well. Suspended operations.

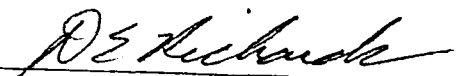
9/30/82 thru 10/8/82

Bled to 0 in 30 min. (dry gas). Filled tbg. with 69 bbl MgCl water.  
Circulated FW from heat string. Replaced w/MgCl water. RU WL.  
Moved in rig. RU McCullough, ran temp. survey and gamma ray log  
from 9000-12,990'. RU workover unit. ND X-mas tree. NU &  
tested BOPs. OK. POOH w/2-3/8" heat string and 2-7/8" production  
string. RIH with gauge ring to TOL @ 9422'. WIH w/3-1/8" perforating  
gun and perforated as follows: 1st run - 11,918-26'; 11,740-44';  
11,540-48'; 11,428-32'. 2nd run - 11,373-82'; 11,310-316';  
11,188-200'; 11,156-163'. Perforated at 11,094-102'; 10,824-834';  
10,801-810'; 10,794-798'; 10,774-783'; 10,756-60'; 10,739-49';  
10,732-736'; 10,706-713'; 10,698-703'; 10,686-92'; 10,522-26';  
10,513-18'; 10,634-46'; 10,501-505'; 10,489-98'; 10,472-86';  
10,462-70'; 10,443-48'; 10,334-40'; 10,424-32'; 10,374-80';  
10,358-62'; 10,270-74'; 10,252-56'; 10,200-204'; 10,183-87';  
10,172-180'; 10,064-71'. Perf @ 10,052-60'; 9988-92';  
9978-82'; 9962-74'; 9900-13'; 9890-98'; 9882-87'; 9836-44';  
9795-9816'. Final pressure = 3000 psi. WIH w/Otis "WB" packer  
with pump out plug and set at 9370'. Bled pressure off well.  
WIH with 2-7/8" tbg. replacing seal rings. Stung into pkr.  
Finished running 2-3/8" heatstring. Tested annulus to 1500 psi.  
ND BOP. NU tree. Tested to 5M psi. RU hot oil truck on  
heatstring and circ. hot water. Pump out plug in pkr. with 3100  
psi. Opened well to pit.

Flowed: Water 75 bbl  
Oil 10 bbl  
Mud 10 bbl  
Water 12 bbl  
Oil 20 bbl

Well Status Report  
October 12, 1982  
Page Two

SI well. Built to 1200 psi in 30 minutes. RD and released rig at 1600 hr. 10/7/82. FINAL REPORT: Hooking up production equipment.

  
\_\_\_\_\_  
D. E. Richards  
Senior Drilling Engineer  
713/940-4014

SUBMIT IN DUPLICATE\*

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sonat-Strand-Baranger

9. WELL NO.

#1-23B2

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 23, T2S, R2W

12. COUNTY OR PARISH  
Duchesne13. STATE  
Utah

1a. TYPE OF WELL:

OIL WELL ☒GAS WELL ☐DRY ☐

Other

b. TYPE OF COMPLETION:

NEW WELL ☒WORK OVER ☐DEEP-EN ☐PLUG BACK ☐DIFF. RESVR. ☐

Other

2. NAME OF OPERATOR

Sonat Exploration Company

3. ADDRESS OF OPERATOR

P. O. Box 1513; Houston, TX 77251-1513

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

1123' FNL &amp; 1557' FEL of Sec. 23, T2S, R2W

At top prod. interval reported below

At total depth Straight Hole

14. PERMIT NO.

43-013-30619

DATE ISSUED

11/13/81

15. DATE SPUDDED

5/23/82

16. DATE T.D. REACHED

7/24/82

17. DATE COMPL. (Ready to prod.)

11/29/82

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5268' (GR)

19. ELEV. CASINGHEAD

5269'

20. TOTAL DEPTH, MD &amp; TVD

12,995' MD

21. PLUG, BACK T.D., MD &amp; TVD

12,995' MD

22. IF MULTIPLE COMPLETIONS, HOW MANY\*

Single

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

Perforations @ 9795-12,945'

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/OR/EDC/SONIC

DIVISION OF

OIL &amp; GAS &amp; MINING

27. WAS WELL CORED

No

28.

CASING RECORD (Report all strings set with casing)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"		245'	17-1/2"	385 SX	
10-3/4"	51#	2970'	12-1/4"	645 SX	
7-5/8"	39# & 33.7#	9746'	9-1/2"	450 SX	

29.

LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	9422'	12,995'	Uncemented	Liner	2-7/8"	9,370'	9,370'

31. PERFORATION RECORD (Interval, size and number)

See Attached List

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
11/26/82		Flowing					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
11/27/82	24	17/64	→	240	250	12	1042	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
650	0	→	240	250	12	34		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for fuel

TEST WITNESSED BY

Bill Hance

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Senior Drilling Engineer

DATE

December 20, 1982

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), annotations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22 and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUMULON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

## 38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River	5,286'	
Wasatch	10,024'	

Reference: DIL-SFL Dated 7/25/82

3 shots/foot, 120° Phasing, at each depth

<u>Interval</u>	<u>Depth Interval</u>	<u>Ft. of Perfs</u>
1	12,942-945	3
2	929-935	6
3	911-916	5
4	12,893-899	6
5	878-882	4
6	867-870	3
7	849-854	5
8	813-828	15
9	12,794-798	4
10	762-774	12
11	746-752	6
12	722-728	6
13	704-708	4
14	12,691-695	4
15	686-689	3
16	677-684	7
17	666-672	6
18	645-648	3
19	639-642	3
20	624-632	8
21	12,590-596	6
22	570-575	5
23	560-567	7
24	548-558	10
25	528-533	5
26	513-517	4
27	501-507	6
28	12,489-498	9
29	472-479	7
30	456-466	10
31	437-442	5
32	426-430	4
33	416-421	5

<u>Interval</u>	<u>Depth Interval</u>	<u>Ft. of Perfs</u>
34	401-410	9
35	12,385-396	11
36	372-378	6
37	347-351	4
38	330-334	4
39	310-314	4
40	12,294-300	6
41	269-281	12
42	261-265	4
43	252-259	7
44	12,814-824'	10
45	12,095-104'	9
46	12,363-365'	2
47	11,918-926'	8
48	11,740-744'	4
49	11,540-548'	8
50	11,428-432'	4
51	11,373-382'	9
52	310-316'	6
53	11,188-200'	12
54	156-163	7
55	11,094-102'	8
56	10,824-834'	10
57	801-810'	9
58	10,794-798	4
59	774-783'	9
60	756-760'	4
61	739-749'	10
62	732-736'	4
63	706-713'	7
64	10,698-703'	5
65	686-692'	6
66	634-646'	12
67	10,522-526'	4
68	513-518'	5

<u>Interval</u>	<u>Depth Interval</u>	<u>Ft. of Perfs</u>
69	10,501-505'	4
70	10,489-498'	9
71	472-486'	14
72	462-470'	8
73	443-448'	5
74	434-440'	6
75	424-432'	8
76	10,374-380'	6
77	358-362'	4
78	10,270-274'	4
79	252-256'	4
80	200-204'	4
81	10,183-187'	4
82	172-180'	8
83	10,064-071'	7
84	052-060'	8
85	9,988-992'	4
86	978-982'	4
87	9,962-974'	12
88	9,990-913'	13
89	9,890-898'	8
90	9,882-887'	5
91	9,836-844'	8
92	9,795-816'	21

Reference: DIL/SFL dated 7/25/82

Shot Density: 4 JSPF, 90° Phasing



Sonat Exploration Company

Present Completion

Sonat-Strand-Baranger

#1-23B2

Duchesne Co., Utah

BTS/JAW

12/82

13-3/8" @ 245'

10-3/4" @ 2970'

2-3/8" Heat String @ 5000±

Fluid in the Annulus:

0' - 5000' - 8.4 ppg FW

5000' - Pkr. - 11.0 ppg

MgCl<sub>2</sub> water

TOL @ 9422'

(BOT, CMC Liner Hanger w/PRL Liner  
Packer)

7-5/8" @ 9746'

Otis "WB" pkr. w/pump out plug set @ 9370'.  
Below the packer is X-over, 6'-2-7/8" pup  
joint, 2-7/8" "X" nipple & another 6'-2-  
7/8" bevelled pup joint for wireline re-  
entry.

\*See Attached List for Perforations

Failed CTC Packer @ 10,917±

Failed CTC Packer @ 12,158'±

Otis "WD", Packer set @ 12,027' with 16'  
of Seal Bore Extensions, cross-over, 6'-  
2-3/8" pup joint, 2-3/8" "X" nipple @  
12,052' and 4'-2-3/8" pup joint.

\*See Attached List for Perforations

5" @ 12,993'

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Sonat-Strand-Baranger #1-23B2  
Operator Sonat Exploration Company Address P.O. Box 1513; Houston, TX 77251-1513  
Contractor Transcontinental Address \_\_\_\_\_  
Location NW 1/4 NE 1/4 Sec. 23 T: 2S R. 2W County Duchesne

Water Sands

	<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
	From To	Flow Rate or Head	Fresh or Salty
1.	500' - 550'	2 bbl/hr	Fresh
2.	700' - 750'	2 bbl/hr	Fresh
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Sonat Exploration Company  
Post Office Box 15  
Houston TX 77251 1513  
713 940 4000

## SONAT EXPLORATION

December 27, 1982

Re: Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County

State of Utah  
Department of Natural Resources  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

Enclosed are the logs which are to be filed with our Completion Report, filed December 27, 1982.

If you need additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards  
Senior Drilling Engineer

JAW/jlp  
Enclosures

RECEIVED  
JAN 04 1983

DIVISION OF  
OIL GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P O Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123'FNL & 1557'FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. 1-23B2
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5268' (GR)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Sonat requests approval to add perforations to the subject well. See attached list.

RECEIVED  
JUL 27 1983

DIVISION OF  
OIL GAS & MINING

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 8/5/83  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Mike Lemmen</u>	TITLE <u>Senior Drilling Engineer</u>	DATE <u>July 21, 1983</u>
---------------------------	---------------------------------------	---------------------------

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

PROPOSED PERFORATIONS  
Baranger #1-23B2

<u>INTERVAL</u>	<u>FOOTAGE</u>
10,016 - 10,024'	8
10,584 - 10,586'	2
10,596 - 10,604'	8
10,876 - 10,880'	4
10,882 - 10,886'	4
10,910 - 10,914	4
10,958 - 10,962	4
10,969 - 10,972	3
10,996 - 11,000'	4
11,016 - 11,026'	10
11,108 - 11,111'	3
11,138 - 11,146'	8
11,562 - 11,574'	12
11,711 - 11,720'	9
11,732 - 11,734'	2
11,765 - 11,770'	5
11,793 - 11,798'	5
TOTAL	<hr/> 95'

Gun: 2-1/8" Hollow Carrier, 2 JSPF JRC 6.5g charge.

SONAT EXPLORATION COMPANY

Present Completion  
Sonat-Strand-Baranger  
#1-23B2  
Duchense Co., Utah

BTS/JAW

04/83

13-3/8" @ 245'

10-3/4" @ 2970'

2-3/8" Heat String @ 5000'±

Fluid in the Annulus:

0'-5000' - 8.4 ppg FW

5000'-pkr - 11.0 ppg MgCl<sub>2</sub> water

TOL @ 9422'

(BOT, CMC Liner Hanger w/PRL  
Liner Packer)

7-5/8" @ 9746'

Otis "WB" pkr w/pump-out plug set @ 9370'.  
Below the packer is X-over, 6' - 2-7/8" pup  
joint, 2-7/8" "X" nipple & another 6' -  
2-7/8" bevelled pup joint for wireline  
reentry.

Perforations: 9795-11,926'

(See Attached Proposed Perforations)

Failed CTC Packer @ 10,917'±

Failed CTC Packer @ 12,158'±

Otis "WD" Packer set @ 12,027' with  
16' of Seal Bore Extensions, cross-over,  
6' - 2-3/8" pup joint, 2-3/8" "X" nipple  
@ 12,052' and 4' - 2-3/8" pup joint.

Perforations: 12,252-12,945'

5" @ 12,993'

3  
Sonat Exploration Company  
Post Office Box 151  
Houston TX 77251 1513  
713 940 4000

## SONAT EXPLORATION

July 21, 1983

Re: Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining  
4241 State Office Bldg.  
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," along with its attachments concerning the subject well.

If you require additional information, please call me at 713/940-4026.

Sincerely,

*Mike Lammers*

M. J. Lammers  
Senior Drilling Engineer

BTS/JAW  
Enclosures

RECEIVED  
JUL 27 1983

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P O Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123'FNL & 1557'FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. 1-23B2
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5268' (GR)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23, T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☒

REPAIRING WELL

☐  
☐  
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

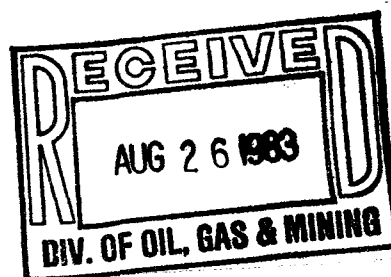
ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Sonat added perforations to the subject well. See the attached list.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MININGDATE: 8/23/83BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

Mike Lammert

TITLE

Senior Drilling Engineer

DATE

August 23, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



Added Perforations  
Sonat-Strand-Baranger #1-23B2

<u>INTERVAL</u>	<u>FOOTAGE</u>
10,016 - 10,024'	8
10,584 - 10,586'	2
10,596 - 10,604'	8
10,876 - 10,880'	4
10,882 - 10,886'	4
10,910 - 10,914'	4
10,958 - 10,962'	4
10,969 - 10,972'	3
10,996 - 11,000'	4
11,016 - 11,026'	10
11,108 - 11,111'	3
11,138 - 11,146'	8
11,562 - 11,574'	12
11,711 - 11,720'	9
11,732 - 11,734'	2
11,765 - 11,770'	5
11,793 - 11,798'	5
TOTAL	95'

Gun: 2-1/8" Hollow Carrier, 2 JSPF JRC 6.5g charge.

SONAT EXPLORATION COMPANY

Present Completion  
Sonat-Strand-Baranger  
#1-23B2

Duchesne Co., Utah  
BTS/JAW 08/83

13-3/8" @ 245'

10-3/4" @ 2970'

Fluid in the Annulus  
0'-5000' - 8.4 ppg FW  
5000' - Pkr - 11.0 ppg  
CaCl<sub>2</sub> water

TOL @ 9422'  
(BOT, CMC Liner Hanger w/PRL  
Liner Packer)

7-5/8" @ 9746'

Failed CTC Packer @ 10,917'±

Failed CTC Packer @ 12,158'±

National Hydraulic  
pump above the packer  
inside the tubing. (pumped in after workover)

Otis "WB" pkr w/pump out plug set @ 9370'.  
Below the packer is X-over, 6' - 2-7/8" pup  
joint, 2-7/8" "X" nipple & another 6' -  
2-7/8" bevelled pup joint for wireline  
reentry.

Perforations: 9795-11,926' (Gross)  
Additional Perfs @ 10,016'-11,798' (Gross)

Otis "WD" Packer set @ 12,027' with 16'  
of Seal Bore Extensions, cross-over,  
6' - 2-3/8" pup joint, 2-3/8" "X"  
nipple @ 12,052' and 4' - 2-3/8"  
pup joint.

Perforations: 12,252-12,945' (Gross)

5" @ 12,993'

Sonat Exploration Company  
Post Office Box 1513  
Houston TX 77251 1513  
713 940 4000

**SONAT EXPLORATION**

**RECEIVED**

**OCT 22 1985**

October 17, 1985

**DIVISION OF OIL  
GAS & MINING**

State of Utah  
Natural Resources and Energy  
Oil, Gas & Mining  
4241 State Office Bldg.  
Salt Lake City, UT. 84114

RE: Sonat-Strand-Baranger, #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells" concerning the subject well.

If additional information is necessary, please call me at 713/840-4976.

Sincerely,

*D. T. McPherson*

D. T. McPherson  
Supervisor of Production Engineering

JAW:by

Enclosures

OCT 23 1985

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FFF
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1513, Houston, TX. 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulation. See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. 1-23 B2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5268' (GR)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

RECEIVED

OCT 22 1985

DIVISION OF OIL  
& GAS & MINING

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

REPAIRING WELL

☐  
☐  
☐  
☐  
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) replace pump

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Completed Operations: Objective: To replace pump.

POH with 2-7/8" tbg. TIH with J-Latch seal assembly, pump cavity, 284 jnts. and one 4" pup jnt. of 2-7/8", 6.5 psi, N80, 8rd, ABC mod., EUE. Broached tbg. during TIH-OK. Latched on to pkr - left 18,000# tension on tbg. TIH with 1 jnt 2-3/8" hydrill tbg. NU BOP-flanged up tree. Pumped 20 bbl produced wtr down tbg. Dropped SV and pumped to bottom. Press tidal SV to 1500 psi for 10 minutes-OK. Circulated produced water down tbg, up annulus overnight. Began pumping hydraulic pump down tbg at 7 a.m. RD pulling unit 8/8/85.

Results:	BOPD	MCFD	BWPD	FTP
8/10/85 - 22	30	52	2800	
8/11/85 - 18	30	40	2800	
8/12/85 - 17	30	31	2800	

Note: Received V/A and to follow up with a SSN to replace the pump from Mr. Norm Stout on August 1, 1985.

## 18. I hereby certify that the foregoing is true and correct

SIGNED

D.T. McPherson

TITLE

Supv. of Production Engineering

DATE

10/17/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OCT 23 1985

\*See Instructions on Reverse Side

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(See instructions on  
reverse side)

111926

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company, Attn: J.A. Ward		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. 1-23B2
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5268'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☒CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attachment.

18. I hereby certify that the foregoing is true and correct

SIGNED LR IschibartTITLE Supv. of Prod. Eng.DATE 11/6/86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 11-18-86BY: Jim R. Bay

\*See Instructions on Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

### Data on Present Zone

Wasatch Zone: Present perforations at 9795-11,926' OA and  
12252-12,945' OA

Average daily production for first 21 producing days in October 1986.

Shut-In: 7/25/86 - Hydraulic pump stopped pumping. Normal production  
12 BOPD, 10 BWPD.

Reason for abandonment: The well is uneconomical to operate.

### Proposed P&A Procedure

1. RU rig.
2. Set BPV's. ND tree. NU and test BOP's. Remove BPV's.
3. RU on short string and POOH.
4. RU on long string. Establish injection rate of 3-4 BPM at maximum 4500 psi down tbg. Spot 150 sx C1 "G" cement to EOT. Sq. 100 sx below pkr. at 9370'. Leave 50 sx cement on top of pkr. POOH with tbg.
5. ND BOP's and tubing spool. Weld onto 7-5/8" csg. and NU BOP's on 10-3/4" casing head. Cut 7-5/8" csg. at 3100' and work free.
6. Spot 150 sx C1 "G" cement from 3100-2800'.
7. Spot 30 sx C1 "G" cement inside 10-3/4" csg from 60' to surface. Cut off 10-3/4" csg. 4' BGL. Weld 1/4" steel plate on 10-3/4" csg. Install dry hole marker with well name, number, and location of well.
8. Will remove surface production equipment and restore location.

Depth Reference; KB to THF \_\_\_\_\_; KB to MGL \_\_\_\_\_

Annulus Fluid: \_\_\_\_\_ ppg \_\_\_\_\_

Tree: 5000 psi \_\_\_\_\_ psi WP

Type of Pump: \_\_\_\_\_

Unit Size: \_\_\_\_\_

SPM: \_\_\_\_\_

Stroke Length: \_\_\_\_\_

Type of Drive: \_\_\_\_\_

PROPOSED  
MECHANICAL SKETCH

OTIS "WB" PKC @ 9370'

\_\_\_\_\_ SN \_\_\_\_\_; \_\_\_\_\_ ID

OTIS "WD" PKC @ 12027'

Prepared By: LRT Date: 9-86

2800'

3100'

T.D. 12993

Bluebell

FIELD

Baranger

LEASE

#7-2382

WELL

Completed: \_\_\_\_\_ / \_\_\_\_\_

Workover: \_\_\_\_\_ / \_\_\_\_\_, \_\_\_\_\_ / \_\_\_\_\_, \_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ TUBING \_\_\_\_\_

\_\_\_\_\_ " \_\_\_\_\_ # \_\_\_\_\_

Size Weight Thread Coils

Grade to Feet New/Used/Rerun Coating

10 3/4 csg. 51 # to 2970

Remarks: TOC I 5000'

TOC @ 9422'

7 5/8" csg. 39 33.7 ppg; to 9746

9795'-11926' OA w/ sac Wasatch Zone

12252'-12945' OA w/ pe Wasatch Zone

PSD @ \_\_\_\_\_  
5" csg. 18 # to 12993



Depth Reference; KB to THF \_\_\_\_\_; KB to MGL \_\_\_\_\_

Annulus Fluid: \_\_\_\_\_ ppq \_\_\_\_\_

Tree: 5000 psi; Nat'l \_\_\_\_\_ psi WP

Type of Pump: \_\_\_\_\_

Unit Size: \_\_\_\_\_

SPM: \_\_\_\_\_

Stroke Length: \_\_\_\_\_

Type of Drive: \_\_\_\_\_

PRESENT  
MECHANICAL SKETCH

0+is"WB"PKr @ 9370'

0+is"X"SN @ 9380; 2.313" ID

0+is"WD"PKr @ 12027'

Prepared By: LRT Date: 9-3-86

Blue Bell \_\_\_\_\_ FIELD

Baranger \_\_\_\_\_ LEASE

#1-2382 \_\_\_\_\_ WELL

Completed: \_\_\_\_\_ / \_\_\_\_\_

Workover: \_\_\_\_\_ / \_\_\_\_\_, \_\_\_\_\_ / \_\_\_\_\_, \_\_\_\_\_ / \_\_\_\_\_

TUBING

2 7/8"  
Size

6.5 #  
Weight

ABC 8rd  
Thread

EUE  
Collars

N-80  
Grade

9370  
Feet

NEW  
New/Used/Rerun

None  
Coating

10 3/4" csg. 51 # to 2970'

Remarks: Nat'l Hydraulic pump  
above Packer  
TOC I 5000'

TOL @ 9422'

7 5/8" csg. 39  
33.7 ppq; To 9746

9795'-11926' OA w/ \_\_\_\_\_ SPF Watch Zone

12252'-12945' OA w/ \_\_\_\_\_ SPF Watch Zone

PSTD @ \_\_\_\_\_  
5" csg. 18 # to 12993'  
# to \_\_\_\_\_

T.O. 12993'

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Sonat Exploration Co.

WELLNAME: Barranger 1-2382 API# 43-013-30619

SECTION: 23 TWP: 25 RANGE: 2W

INSPECTOR: GARY GARNER TIME: 8:00 DATE: 9/19/88

REPRESENTATIVE: Bob Moran PUSHER: Willie Williams

OPERATIONS: plug + abandon.

SPUD DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_

DRILLING AND COMPLETIONS:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> SANITATION
<input type="checkbox"/> BOPE	<input type="checkbox"/> BLOOIE LINE	<input type="checkbox"/> H2S
<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> RESERVE PIT	<input type="checkbox"/> FLARE PIT
<input type="checkbox"/> BURN PIT	<input type="checkbox"/> HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL
<u>100 SK Class G below pkr</u>	<u>9370'</u>
<u>50 SK Class G above pkr</u>	<u>Bottom of cmt 9828</u>
	<u>Top of cmt 9141</u>

PLUGS TESTED: NO HOW \_\_\_\_\_ WOC \_\_\_\_\_

MARKER: ☐ SURFACE ☒ PLATE

RECLAMATION:

☐ CONTOUR ☐ RIP ☐ REHAB

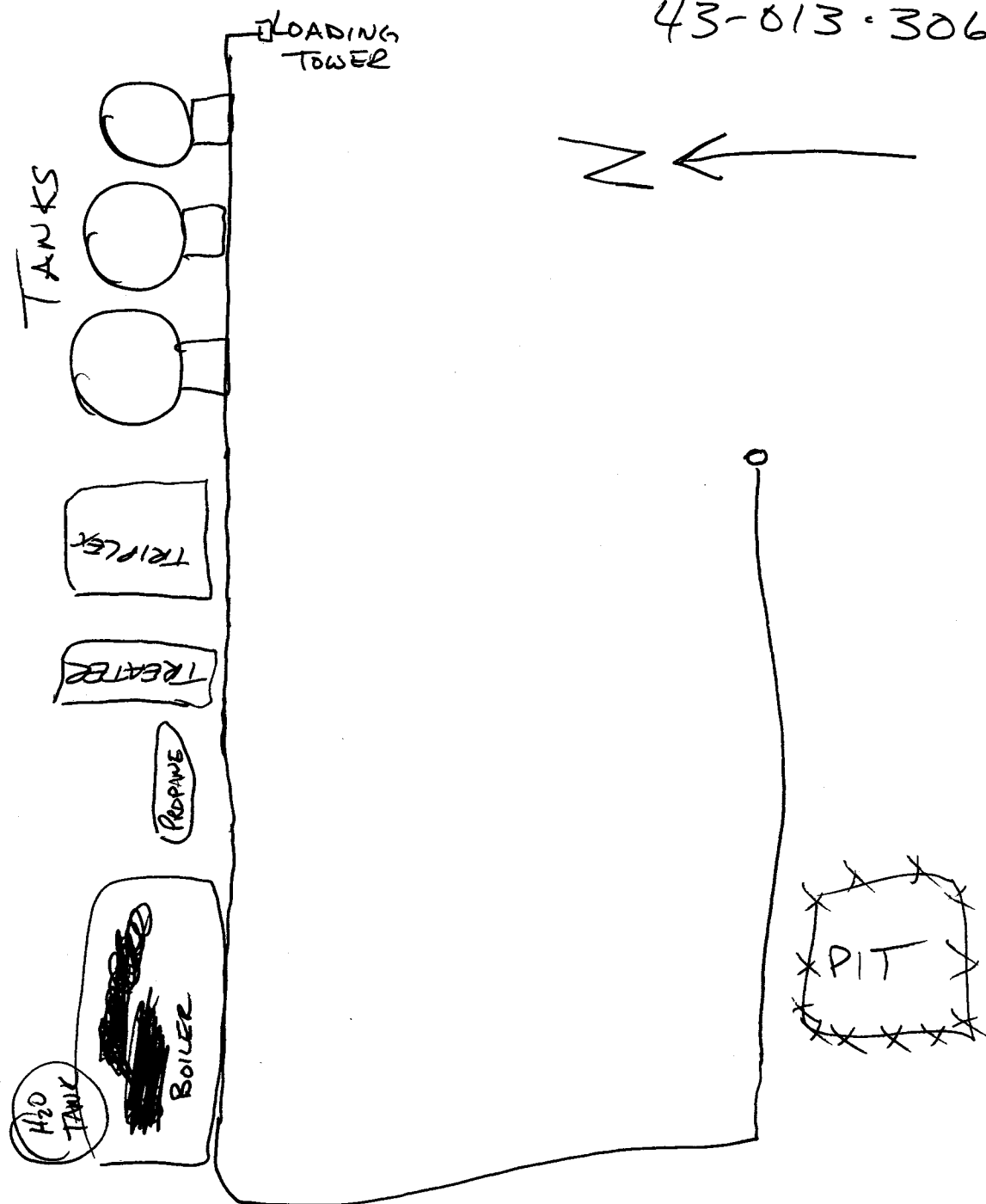
LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

slips failed - shut down to repair - stuck the tubing in the hole,  
backed it off + left 3000' tubing in the hole - put 20 sk  
cement on top of it.

APPROVED BY GARY GARNER HOW ON SITE DATE 9/19/88

43-013-30619



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Senat Exploration

WELLNAME: Barranger 1-23BZ API# 43-013-30619

SECTION: 23 TWP: 2S RANGE: 2W

INSPECTOR: GARY GARNER TIME: 8:00 DATE: 9/20/88

REPRESENTATIVE: Bob Marlan PUSHER: Willie Williams

OPERATIONS: set surface plug

SPUD DATE: \_\_\_\_\_ DEPTH: TD/PBTD - 12,993

DRILLING AND COMPLETIONS:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> SANITATION
<input type="checkbox"/> BOPE	<input type="checkbox"/> BLOOIE LINE	<input type="checkbox"/> H2S
<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> RESERVE PIT	<input type="checkbox"/> FLARE PIT
<input type="checkbox"/> BURN PIT	<input type="checkbox"/> HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL
<u>cement Class G. - 50x down</u>	<u>Surface</u>
<u>10 3/4 + 50 5x down</u>	
<u>7 5/8</u>	

PLUGS TESTED: NO HOW \_\_\_\_\_ WOC \_\_\_\_\_

MARKER:        SURFACE   4   PLATE

RECLAMATION:

       CONTOUR        RIP        REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS:

operation went smoothly.

APPROVED BY GARY GARNER HOW ON SITE DATE 9/20/88

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

2

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED  
OCT 20 1988

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> P&A'd		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company, Attn: Julie Ward		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 23, T2S, R2W		8. FARM OR LEASE NAME Sonat-Strand-Baranger
14. PERMIT NO. 43-013-30619		9. WELL NO. 1-23B2
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5268'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23-T2S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

See attachment.

18. I hereby certify that the foregoing is true and correct

SIGNED

*Julie Ward*

TITLE

Regulatory Compl. Admin.

DATE

10/17/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

### Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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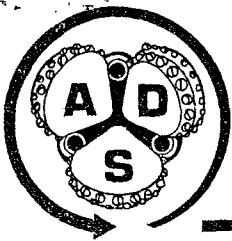
#### Data on Present Zone

Wasatch Zone: Abandoned perforations at 9795-11,926' OA and 12,252-12,945' OA

OIL AND GAS	
L-TAS	RUF
2 - MICROFILM	GLH
3 - FILE	SLS

Sonat-Strand-Baranger #1-23B2  
Section 23, T2S, R2W  
Duchesne County, Utah

1. MI/RU well service unit on 9/15/88.
2. Pumped 200 bbls of production water at 1400 psi to clear tubing.
3. ND wellhead. NU BOP.
4. Released 2-7/8" tubing from Otis "WB" packer at 9370'. POOH with 160 joints.
5. RU hot oiler and pumped 70 bbls of 250° formation water down tubing and out casing. Hooked up rig pump. Circulated 200 bbls formation water down tubing and up casing to pit. POOH.
6. RIH with 126 joints 2-7/8" tubing. The well blew out. Circulated oil and gas out of the casing. FGIH with tubing. Pumped 100 bbls of 250° formation water with hot oiler, followed by 150 bbls 160° formation water with rig pump. Circulated oil and gas out of the casing with 300 bbls formation water.
7. Latched into "WB" packer at 9370'. Established injection rate of 3-1/2 BPM at 1700 psi. Pumped 100 sx C1 "G" cement below packer at 9370-9828'. Unstung from packer. Spotted 50 sx C1 "G" cement on top of the packer from 9370-9141'. POOH. Laid down 27 joints of tubing.
8. Stopped to change slip dies and tubing stuck at 8524'. Made manual back off at 5740'. Spotted 20 sx C1 "G" cement on top of fish. POOH with 184 jts 2-7/8" tubing. Left 8 jts in the hole to cement 7-5/8". Cement work witnessed and approved by Gary Gardner, State of Utah, Oil, Gas, and Mining.
9. Pumped into 10-3/4" casing with 50 sx C1 "G" cement with 2% chloride from surface to 360'. Cemented 7-5/8" casing from surface to 240' with 50 sx C1 "G" with 2% chloride. POOH.
10. ND BOP's. NU wellhead. RD/MO well service rig.
11. Cut off conductor pipe, 10-3/4" and 7-5/8" casing. Filled 10-3/4" x 7-5/8" with 4 sx C1 "G" cement to surface. Welded steel plate on top of casing with well data as per Gary Gardner, State of Utah, Oil, Gas, and Mining.
12. Well P&A'd 9/21/88. The location is being cleared and restored. Estimated completion of project ±November 15, 1988.



# APPLIED DRILLING SERVICES, INC.

## OILFIELD CONSULTANTS AND OPERATIONS MANAGEMENT

Rt. 1 Box 1764  
Roosevelt, Utah 84066  
801-722-5087

January 24, 1989

P.O. Box 620554  
Littleton, Colorado 80127  
303-973-6189

RECEIVED  
FEB 01 1989

Ms Arlene Sollis  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL, GAS & MINING

Dear Arlene:

35 - W - 2  
43-013-  
30786 — Enclosed are the final records and land owners agreements between Sonat Exploration Company and the land owners on the Dean 1-7C1, Washburn 1-2C2 and Barranger 1-23B2. As indicated in my conversation with Jim Thompson, these agreements will satisfy your records so that Sonat's bond might be released.

43-013-30729  
35 1W-7

If you should have any questions, please feel free to contact me at 801-722-5087.

Sincerely,

Cary Smith, President  
APPLIED DRILLING SERVICES, INC.

Enclosures



Sonat Exploration Company  
Post Office Box 1512  
Houston TX 77251-1512  
713 940 4000

## SONAT EXPLORATION

October 26, 1988

RE: Baranger #1-23B2  
Duchesne County, UT

S 23 25 20  
D

This will confirm our understanding that you agree that Sonat Exploration Company has adequately restored the surface of the subject land to your satisfaction and do hereby release Sonat Exploration Company, its successors and assigns from any action, claim or demand against it occasioned by the drilling of the subject well.

Please acknowledge by signing in the space provided below.

Thank you for your cooperation.

Sincerely,

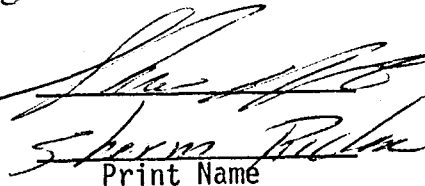


M. J. Simon  
Drilling Manager

MJS:by

Accepted and agreed to this 9 day of Oct, 1988.

Signed:

  
Print Name

722-5878

For the sum of \$1.00 and other consideration, landowner has been contracted to close the emergency pit on this location within seven (7) days of the date of this agreement.

(Signed) 